

## **Launch Mission Execution Forecast**

Falcon 9 StarlinkV1.0 L-16 Mission: Issued: 19 Jan 2021 / 1030L (1530Z)

Valid: 20 Jan 2021 / 0757 – 0808L (1257 – 1308Z)



High pressure will continue to dominate the area, bringing pleasant days along the Space Forecast Discussion: Coast for the first half of the week. Winds will continue to be light on Wednesday, shifting to the northwest, and upperlevel winds begin to increase slightly as the jet dips further into the southeastern states. Moisture slightly increases over the Spaceport Wednesday morning, increasing the potential for low-topped cumulus clouds to develop. This will cause the primary concern to be the Cumulus Cloud Rule for a Wednesday launch attempt.

On Thursday, a frontal system will spread across the Eastern Seaboard, draping a front just to our east. This will bring in a few mid-level clouds as the high center is nudged south of the Spaceport. The primary weather concern is the Thick Cloud Layer Rule with these mid-level clouds associated with the frontal boundary.

	Probability of Violating Weather Constraints								
Day	10% Primary Concerns: Cumulus Cloud Rule								
	Weather Conditions							Additional Risk Criteria	
aunch	Weather/Visi	bility:	None /7 mi.	Туре	Clouds Coverage	Base (ft)	Tops (ft)	Upper-Level Wind Shear:	Low
Ľ	Temp/Humid	ity:	58°F / 65%	Cumulus	Few	3,000	4,500	Booster Recovery Weather:	Low
	Liftoff Winds	(200'):	330° 10-15 mph					Solar Activity:	Low
	Probability of Violating Weather Constraints								
Delay	20% Primary Concerns: Thick Cloud Layer Rule								
	Weather Conditions							Additional Risk Criteria	
0	Weather/Visibility: None / 7 mi.		Clouds Type Coverage Base (ft) Tops (ft)			Upper-Level Wind Shear:	Moderate		
Ť	vveather/visi	onity.		Туре	Ooverage	Dasc (II)	- ()		
24-Hour	Temp/Humid	•	60°F / 70%	Altocumulus	Scattered	10,000	12,000	Booster Recovery Weather:	Low

Next Forecast Will Be Issued | As needed